

## Directivity control circuitry for adaptive antenna

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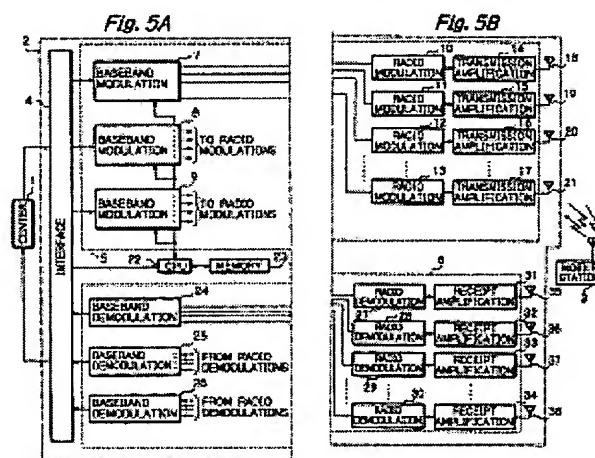
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Circuitry for controlling the directivity of an adaptive antenna including a plurality of antenna elements and forming the directivity by varying signals fed to the antenna elements such that a gain in a preselected direction increases is disclosed. The circuitry includes a transmitting section for transmitting a scanning pilot channel for scanning on a downlink while causing the pilot channel to move in a propagation range covered by the adaptive antenna. A receiving section receives a signal representative of the intensity of the scanning pilot channel received by a mobile station. A controller detects a transmission direction in which the mobile station receives the scanning pilot channel with the highest quality, and applies the directivity parameter of the detected direction to the directivity of a downlink. The circuitry improves the directivity of the downlink in mobile communication.



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